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In abstracts of patents only the names of firms have been given and the abstracts have been indexed under these names. Where two firms have jointly taken out a patent, or where a paper has two or more authors, all the names have been included in the index. Names beginning with de, la, le, van, von, etc., are indexed under the surname.

Abbreviations of Names of Firms, etc.

AAP	***	***	Koppers Co. Inc.	нн			Hardman & Holden Ltd
AATCC	***	***	American Association of Textile Chemists and	HSH		***	Harshaw Chemical Co.
			Colorists	HWL			Hickson & Welch Ltd
Acna	***	***	Aziende Colori Nazionali Affini	IC			Interchemical Corpn
ACY	***	***	American Cyanamid Co.	ICI			Imperial Chemical Industries Ltd
BA	***	***	Bates Chemical Co. Inc.	KVK	***		Kemisk Varek Koge A/S
BASF CFM	***	***	Badische Anilin- & Soda-Fabrik A.G.	KYK		***	Nippon Kayaku Co.
CIBA	***	***	Cassella Farbwerke Mainkur A.G.	LT			Laporte Titanium Ltd
0.1	***	***	CIBA Ltd Columbian Carbon Co.	MCI	***		Mitsubishi Chemical Industries Ltd
CSIRO	***	***	Commonwealth Scientific and Industrial	MDW		***	Mitsui Chemical Industry Co. Ltd
Colko	***	***	Research Organisation		***	***	
DH			Durand & Huguenin S.A.	MMM Montecatin		***	Minnesota Mining & Manufacturing Corpn Montecatini Società Generale per l'Industria
D. D	***	***	E.I. du Pont de Nemours & Co. Inc.	Montecatill	1	***	Mineraria e Chimica
EDv	***	***	Farbenfabriken Bayer A.G.	NL			National Lead Co.
FC		***	Ferro Corpn	NSK	***	***	Sumitomo Chemical Co. Ltd
FH			Farbwerke Hoechst A.G.	OBM	***		Otto B May Inc.
Fran			Française des Matières Colorantes S.A.	Rhône Poul			Société des Usines Chimiques Rhône-Poulenc
FW	***		VEB Farbenfabrik Wolfen	S			Sandoz A.G.
G	***		General Aniline & Film Corpn			-	Sandoz Products Ltd
GS	***	***	G. Siegle & Co. G.m.b.H.	Vond	***	***	N.V. Fabriek van Chemische Producten,
Gy	***	***	Geigy, J. R., A.G.				Vondelingenplaat
			The Geigy Co. Ltd	YDC	***	***	Yorkshire Dyeware & Chemical Co. Ltd

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The following symbols have been added, where appropriate, after the names of authors.

C	***		Communication	N		***	***	Note
CMC			Publication sponsored by the Colour Measure-	0	***	***	***	Obituary Notice
	***	***	ment Committee	P	***	***	***	Proceedings
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CO11	***	***	Correspondence	K	***	***	***	Book Review
EA	***	***	External Address	RP			***	Review Paper

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2,283,606	344	3,290,282	82	3,296,676	117	3,303,160	172	3,310,498	208	3,317,633	340	3,323,917	344 398	3,329,477 484	343 338	3,334,062 064	388
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JANUARY-DECEMBER 1969

ABBREVIATED TITLE		JOURNAL	Address of Publisher
	***	American Dyestuff Reporter	44 E. 23rd Street, New York, 10010 N.Y., U.S.A.
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	** ***	Angewandte Chemie	Verlag Chemie G.m.b.H., Pappelallee 3, Weinheim/Bergstrasse, Germany.
Acceptables I Diel Col		Australian Journal of Biological Sciences	Commonwealth Scientific and Industrial Research Organisation, 314 Albert Street, East Melbourne C2, Victoria, Australia.
Biochem. J		Biochemical Journal	Cambridge University Press, Bentley House, 200 Euston Road, London N.W.1.
Bull. Chem. Soc. Japan		Bulletin of the Chemical Society of Japan	5, 1-Chome, Kanda-Surugadai, Chiyoda-ku, Tokyo, Japan.
Bull Inch Tout Comes		Bulletin de l'Institut Textile de France	59 Rue de la Faisanderie, Paris (16°), France.
Bull Tout Bes last lanes		Bulletin of the Textile Research Institute	4 Sawatari, Kanagawa, Yokohama, Japan.
Bumazh. prom		Bumazhnaya Promyshlennost'	State Committee for Forest, Cellulose, Paper and Wood Processing Industries, Moscow K-12, ul. 25 Oktyabrya 8, U.S.S.R.
Canadian Textile J		Canadian Textile Journal	Canadian Textile Journal Publishing Co. Ltd, 4795 St Catherine Street West, Westmount, Montreal 6, Quebec, Canada.
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Chem. Communs	** ***	Chemical Communications	The Chemical Society, Burlington House, Piccadilly, London W.1.
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			Germany.
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Die Farbe	** ***	Die Farbe	Musterschmidt-Verlag, 34 Göttingen, Turmstrasse 7, Postfach 421, Germany.
Doklady Akad. Nauk S.S.S.R		Dokladý Akademii Nauk S.S.S.R	Academy of Sciences of the U.S.S.R., Moscow, K-62, Podsosenskil pereulok 21, U.S.S.R.
Dyer		The International Dyer, Textile Printer, Bleacher and	Textile Business Press Ltd, 30 Finsbury Square, London E.C.2.
Endeavour		Fndeavour	Imperial Chemical Industries Ltd, Millbank, London S.W.1.
Faserforsch, und Textiltech.		Faserforschung und Textiltechnik	Akademie-Verlag G.m.b.H., 108 Berlin, W.8 Leipziger Strasse 3-4, Germany.
Galaxia		Galaxia	Asociación Química Textil Argentina, Bulnes 1425, Buenos Aires, Argentina.
Helv. chim. Acta		Helvetica chimica Acta	Verlag Helvetica Chimica Acta, 4000 Basle 7, Switzerland.
Hungarian Tech. Abstracts		Hungarian Technical Abstracts	Hungarian Technical Abstracts, P.O. Box 12, Budapest 8, Hungary,
Ind. Eng. Chem		Industrial and Engineering Chemistry	American Chemical Society, 1155 16th Street, N.W., Washington
Indian Textile J		Indian Textile Journal	D.C., 20036, U.S.A. The Indian Textile Journal Pte. Ltd, "Surya Mahal", Military
Izvestiya Akad. Nauk S.S.S.R., se	r. khim.	Izvestiya Akademii Nauk S.S.S.R	Square, Fort, Bombay 1, India. Academy of Sciences of the U.S.S.R., Moscow, Leninskil prospekt 47,
		1 1 5 1 1 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1	U.S.S.R.
J. Amer. Chem. Soc	* ***	Journal of the American Chemical Society	1155 16th Street, N.W., Washington D.C., 20036, U.S.A.
J. Amer. Leather Chem. Assocn	* ***	Journal of the American Leather Chemists' Association	228 North Green Street, Easton, Pennsylvania, U.S.A.
J. Appl. Chem	***	Journal of Applied Chemistry	Society of Chemical Industry, 14 Belgrave Square, London S.W.1.
J. Applied Polymer Sci	***	Journal of Applied Polymer Science	Interscience Publishers Ltd, 88-90 Chancery Lane, London W.C.2.
J. Biol. Chem	+**	Journal of Biological Chemistry	Mount Royal and Guildford Avenues, Baltimore 2, Maryland, U.S.A.
J.C.S., C Organic	***	Journal of the Chemical Society (C Organic)	Burlington House, London W.1.
J. Chem. Phys		Journal of Chemical Physics	American Institute of Physics, Lancaster, Pennsylvania, U.S.A.
J. Chromatography	* ***	Journal of Chromatography	Elsevier Publishing Co., 110-112 Spuistraat, Amsterdam, Holland.
J. Indian Chem. Soc		Journal of the Indian Chemical Society	92 Acharya Prafulla Chandra Road, Calcutta 9, India.
J. Oil Col. Chem. Assocn		Journal of the Oil and Colour Chemists' Association	Wax Chandlers' Hall, Gresham Street, London E.C.2.
J. Opt. Soc. Amer		Journal of the Optical Society of America	American Institute of Physics, Prince and Lemon Streets, Lancaster, Pennsylvania, U.S.A.
J. Org. Chem		Journal of Organic Chemistry	American Chemical Society, 20th and Northampton Streets, Easton. Pa., U.S.A.
J. Paint Tech		Journal of Paint Technology (Formerly Official Digest, Journal of Paint Technology and Engineering)	121 South Broad Street, Philadelphia 7, Pa.19107 U.S.A.
J. Physical Chem	* ***	Journal of Physical Chemistry	American Chemical Society, 20th and Northampton Streets, Easton Pa., U.S.A.
J. Polymer Sci	* ***	Journal of Polymer Science	Interscience Publishers Inc., 250 Fifth Avenue, New York 1, N.Y., U.S.A.
J. Res. Nat. Bur. Stand		Journal of Research of the National Bureau of Standards	Superintendent of Documents, U.S. Government Printing Office, Washington D.C., 20402, U.S.A.
J. Soc. Fiber Sci. Technol. Japan		Journal of the Society of Fiber Science and Technology, Japan (Sen-i Gakkaishi)	Sen-i Gakkai, c/o Tokyo Institute of Technology, Ookayama, Meguro-ku, Tokyo, Japan.
J. Soc. Leather Trades Chem		Journal of the Society of Leather Trades' Chemists	52 Crouch Hall Lane, Redbourn, Herts.
J. Textile Inst		Journal of the Textile Institute	10 Blackfriars Street, Manchester 3.

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- 1	I IST OF	Periodical	e Ane	tracted	- cont	muea

			Lis	st of Periodicals Abstracted — continued
ABBREVIATED	TITLE			JOURNAL ADDRESS OF PUBLISHER Khimicheskie Volokna State Committee of Chemical and Oil Industry, Moscow,
Khim. Volok	***	***	***	Krivokolennyi pereulok d.12, U.S.S.R.
Kolloid. zhur	***	***	***	10, Ü.S.S.R.
Kolor. Ertesito	***	***	***	Kolorisztikai Értesító Központi Kolorisztikai Kutató Laboratórium, Budapest 62, Postafiók 182
Makromol. Chem	***	***	***	Die Makromolekulare Chemie Dr Alfred Hüthig Verlag, G.m.b.H., Wilckenstr. 3, Heidelberg, Germany.
Melliand Textilber	***	***	***	Melliand Textilberichte Verlag Melliand Textilberichte KG, 69 Heidelberg, Rohrbacher Str. 76, Germany.
Mh. Chem	***	***	***	Monatsheste für Chemie und verwandte Teile anderer Springer-Verlag, Wien I, Möikerbastei 5, Austria. Wissenschaften
Nature	***	***	***	Nature, Macmillan & Co. Ltd, St. Martin's Street, London W.C.2.
Paint, Oil & Col. J.	***	***	***	Paint, Oil and Colour Journal Morris Ashby Ltd, 10 Philpot Lane, London E.C.3, Paint Technology Sawell Publications Ltd, 4 Ludgate Circus, London E.C.4,
Paint Tech Pakistan J. Scientific am	d Indust	rial Re	PS	Paint Technology Sawell Publications Ltd, 4 Ludgate Circus, London E.C.4. Pakistan Journal of Scientific and Industrial Research 39 Garden Road, Karachi 3, Pakistan.
Plastics and Polymers	***	0.00	***	Transactions and Journal, The Plastics Institute 11 Hobart Place, London S.W.1.
Polymer Engng Sci. (for	merly S	PE Tr	анз.)	Polymer Engineering and Science Society of Plastics Engineers Inc., 65 Prospect Street, Stamford, Connecticut 06902, U.S.A.
Polish Tech. Abs	***	***	***	Polish Technical Abstracts Warsaw, Aleje Niepodleglosci 188, Poland,
Proc. Chem. Soc Proc. I.R.I	***	***	***	Proceedings of the Chemical Society Burlington House, London W.1. Transactions and Proceedings Institution of the Rub'er 4 Kensington Palace Gardens, London W.8.
				Industry
Proc. Roy. Soc Rec. Trav. chim	***	***	***	Proceedings of the Royal Society Burlington House, London W.I. Recueil des Travaux chimiques des Pays-Bas Burnierstraat I, 's-Gravenhage, Holland.
Rept Govt Chem. Inc			Inst.	Reports of the Government Chemical Industrial Research I-chome, Hon-machi, Shibuya-ku, Tokyo, Japan. Institute, Tokyo
Rev. Roumaine Chim.	***	***	***	Revue Roumaine de Chimie Academia Republicii Populare Romine, Str. Dumbrova Rosie 23 Bucharest 9, Roumania.
Skinner's Rec	***		***	Skinner's Record of the Man-made Fibres Industry St. James House, 44 Brazennose Street, Manchester 2.
Stain Tech		***	***	Stain Technology Williams & Wilkins Co., Baltimore 2, Maryland, U.S.A.
Svensk Papperstidning Talanta	***	***	***	Svensk Papperstidning Villagatan 1, Stockholm O, Sweden. Talanta Pergamon Press, Headington Hill Hall, Oxford.
Tappi	***	***	***	Tappi Technical Association of Pulp and Paper Industry, 360 Lexington Avenue, New York, N.Y. 10017, U.S.A.
Teintex	***	***	***	Teintex, incorporating Revue Générale des Matières Colorantes 60 rue Richelieu, Paris (2e), France.
Teinture et Apprêts	***	***	***	Teinture et Apprèts Société d'Editions Techniques de la Manutention Textile, 12 Rue d'Anjou, Paris (8e), France,
Tekhnol. tekstil. Prom.	***	***	***	Izvestiya výsshikh uchebnýkh zavedenil, Tekhnologiya tekstil nol promýshlennosti (Technology of the
T-latil mann				Textile Industry of the U.S.S.R.) Ivanova, ulitsa Fridrikha Engel'sa 21, U.S.S.R. Tekstil'naya promyshlennost' (Textile Industry of the
Tekstil. prom	***	***	***	U.S.S.R.) Gizlegprom, Moscow, Tsentr, ulitsa Kirova 39, 6-i etazh Komnata 620, U.S.S.R.
Tetrahedron	***	***	***	Tetrahedron Pergamon Press, Headington Hill Hall, Oxford.
Tetrahedron Letters	***	***	***	De Tex Uitg. C. Misset N.V., Doetinchem, Holland.
Textil Praxis	***		***	Textil Praxis Konradin-Verlag Robert Kohlhammer G.m.b.H., Stuttgart 1,
Text. Chem. Colorist	***	***	***	Postfach 625, Germany. Textile Chemist and Colorist American Association of Textile Chemists and Colorists, P.O. Box 12215, Research Triangle Park, North Carolina 27709, U.S.A.
Textile Digest	***	***	***	Textile Digest V. D. Limaye, Indian Printing Works, 9 Bakehouse Lane, Fort,
Text. Inst. & Ind		***		Bombay, India. The Textile Institute and Industry 10 Blackfriars Street, Manchester 3.
Text. Manuf	***		***	Textile Manufacturer 31 King Street West, Manchester 3.
Text. Rec	***	***	***	Textile Recorder Harlequin Press Ltd, Old Colony House, South King Street, Manchester 2.
Text. Research J	***	***	***	Textile Research Journal Prince and Lemon Streets, Lancaster, Pennsylvania, U.S.A.
Textilveredlung	****	****	****	Textilveredlung Der Verlag, Postfach 207, CH-4001 Basle, Switzerland
Textile J. of Australia	***	***	***	Textile Journal of Australia 142 Clarence Street, Sydney, N.S.W., Australia. Tinctoria Via Negroli 51, Milan, Italy.
Tinctoria Trans. Faraday Soc.	***	***	***	Transactions of the Faraday Society Aberdeen University Press Ltd, 6 Upper Kirkgate, Aberdeen,
Trans. I.R.I	***	***	***	Scotland. Transactions and Proceedings Institution of the Rubber
Trans. Inst. Metal Fin.			***	Industry 4 Kensington Palace Gardens, London W.8. Transactions of the Institute of Metal Finishing 178 Goswell Road, London E.C.1.
Ukrain, khim, zhur.	***	***	***	Ukrainskii khimicheskii zhurnal (Ukrainian Chemical
Vysokomol. Soed	***	***	***	Journal) Kiev, 30 ulitsa Leontovicha 9a, U.S.S.R. Vysokomolekularnye Soedineniya Academy of Sciences of the U.S.S.R., Moscow, Kuznetskii Most,
Wool Sci. Rev	***	***		d.9/10, U.S.S.R. Wool Science Review International Wool Secretariat, Dorland House, 18/20 Regent Street London S.W.1.
World Text. Abs	***		***	World Textile Abstracts The Shirley Institute, Manchester M20 8RX
Zesz. Nauk. Politech. Lo			***	Zeszyty Naukowe Politechniki Lódzkiej Lódz, Gdanska 155, Poland,
Zhur. obshch. khim.	***	***	***	Zhurnal obshchei khimii (Journal of General Chemistry Academy of Sciences of the U.S.S.R., Leningrad B-164.
Zhur. priklad. khim.	****		****	Zhurnal prikladnio khimii (Journal of Applied Chesalistry Academy of Sciences of the U.S.S.R., Leningrad B-164
and promise territor				of the U.S.S.R.) Mendeleevskava liniva. U.S.S.R.,

ABBREVIATIONS AND SYMBOLS used in *The Journal of the Society of Dyers and Colourists*

No distinction is made in abbreviations between singular and plural

In special cases abbreviations and symbols other than those in the list may be used, but as far as possible they will be as given either in standard English dictionaries or in British Standard 1991: Part 1:1967

absolute	abs.	equivalent		equiv.	para	***	***	p-
acetyl	Ac	ethyl		Et	parts per million			p.p.m.
alkyl radical (in chemica	1				Patent	***		
	Alk			_			***	
		Fahrenheit	***	F		***		
alternating current	a.c.	foot	***	ft	poise	***	***	
ampère	A	freezing point		f.p.	potential difference	***		p.d.
Angström unit	Å				pound	***	***	lb
anhydrous	anhyd.	11 (7 . 1)			precipitate	***		ppt.
approximate, -ly	approx., ca	gallon (Imperial)	***	gal	precipitated	***		pptd
aqueous	aq.	gallon (U.S.A.)	***	gal (U.S.A.)	precipitation	***		pptn
aryl radical (in chemical	aq.	gram		g	proportional to			
		gram-molecule	***	mole		***		
formula)	Ar	greater than		>	propyl (normal)	***		Prn
asymmetric (applied to organ		S		***	propyl (iso)	***	***	Pri
compounds)	as-	1-1		-) FE-1				
atmosphere (pressure unit)	atm.	halogen (in chemica			qualitative(ly)			qual.
atomic	at.	horse power			quantitative(ly)			quant.
atomic weight	at. wt	hour	***	h	quantitative(iy)	***	***	quain.
aronna margina ana		hydrogen ion co	ncentra	tion				
Danies 6	D4	(negative logarith	m)	pH	racemic (organic che	mistry)		F-
Baumé	Bé	(negative logariti		··· PAL	recrystallised			recryst.
benzoyl	Bz				refractive index	***	***	
boiling point	b.p.	inch	***	in	relative humidity			r.h.
British Patent	BP	infrared		i.r.				
British thermal unit	B.t.u.	inorganic	***	inorg.	revolutions per minu			rev/min
butyl (normal)	Bun	insoluble	***	insol.	röntgen	***		r
	Bui	mornore	***	111301.				
	Dut.				saturate(d)			sat.*
butyl (tertiary)	But	kilocalorie	***	kcal	second			
		kilogram	***	kg	second		- 4	
calculated	calc.				secondary (organic	compou		
calorie	cal	laguagatatagu		lama ()	soluble		***	sol.
Celsius (centigrade)	C	laevorotatory	***	laevo, (-)-	solution	***	***	soln
centi	с	less than	***	<	specific	***	***	SD.
		litre	***	1	specific gravity	***		sp. gr.
compound	cpd	logarithm (decadic)		log	square in (etc.)			in ² (etc.)
concentrated	conc.	logarithm (natural)		In				
concentration	concn	lumen		lm	stokes	***		
configuration (carbohydrate	es	14111011		*** ****	substituted	***		subst.*
and amino acids)	D-, L-				substitution on niti	ogen, o	xy-	
constant	const.	maximum	***	max.	gen, etc.			N-, O-, etc.
containing more than n carb		melting point	***	m.p.	symmetrical (organ	ic com		
		meta		m-	4)	***		0-
atoms	containing	methyl	***	Me	pound)	***	***	3-
	> n C			m				
corrected	corr.		***		temperature	***		temp.
crystal, -line, -lised (adjective) cryst.	microgram	***	µg	tertiary (organic con	(pound)		1-
	cm3 (etc.)	micron (micrometre		μm	turns per inch	***		turns/in
curie	Ci	milli	***	m	Twaddell	***		Tw
	C	millilitre	***	ml	I wadden	***	***	IW
cycle	0	minimum	***	min.				
		minute		min	United States Patent			USP
decomposition	decomp.				ultraviolet			u.v.
degree	deg	molar (concentratio		M	unsaturated	***		unsat.*
degree of polymerisation	DP	molecular, molecule	***	mol.	unsubstituted			
degree of substitution	DS	molecular weight	***	mol. wt	unsubstituteu	***	***	unsubst.*
density	ρ							
		nanometre		nm	viscosity	***	***	70
derivative	deriv.	normal (concentrati			volt	***	***	
dextrorotatory	dextro. (+)-			N				vol.
dilute	dil.	normal (organic con			volume	***	***	VOI.
direct current	d.c.	not greater than	***	>				
distil, -led	dist.	not less than		≮	watt		***	W
and the second	*** ******				wavelength	***	***	λ
alastromativa force	a m f	organia		0.00	weight	***	***	
electromotive force	e.m.f.	organic	***	org.	mergin	***	***	WI
equation	eqn	ortho	***	0-				
equimolecular	equimol.	ounce	***	OZ	yard	***	***	yd

^{*} Only in describing general formulae in the Abstracts Section

